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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)			
International application No.	International filing date (day/month/year)	Priority date (day/month/year)		
PCT/EP 03/06648	25.06.2003	05.07.2002		
International Patent Classification (IPC) or bo	th national classification and IPC			
A61K7/06				
·				
Applicant				
UNILEVER N.V. et al.	•			
This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.				
	•	:		
2. This REPORT consists of a total of	f 4 sheets, including this cover sheet.			
☑ This report is also accompar	nied by ANNEXES, i.e. sheets of the descrip	tion, claims and/or drawings which have		
been amended and are the back (see Rule 70.16 and Section	pasis for this report and/or sheets containing 607 of the Administrative Instructions unde	rectifications made before this Authority r the PCT).		
These annexes consist of a total of	f 7 sheets.			
	. =	PO - DG 1		
		3 0, 07, 2004		
3. This report contains indications relating to the following Items:				
I ⊠ Basis of the opinion		(107)		
II Priority		• .		
•	opinion with regard to novelty, inventive step	and industrial applicability		
IV 🔲 Lack of unity of inventi	on			
V 🖾 Reasoned statement u	nder Rule 66.2(a)(ii) with regard to novelty, ons supporting such statement	inventive step or industrial applicability;		
VI 🔲 Certain documents cite				
VII 🔲 Certain defects in the i	nternational application			
VIII 🔲 Certain observations o	n the international application			
Date of submission of the decard	Date of completion of	this report		
Date of submission of the demand	Date of completion of			
21.01.2004	05.07.2004			
Name and mailing address of the internation	al Authorized Officer	igns Friends		
preliminary examining authority: European Patent Office				
D-80298 Munich Tel. +49 89 2399 - 0 Tx: 5236	Donovan-Beerma	ann, T		
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International application No.

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ı.	Rad	sis of the report		
	With regard to the elements of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):			
	Des	Description, Pages		
	3, 4	, 7-24	as originally filed	
	1, 2	2, 5, 6	received on 07.06.2004 with letter of 02.06.2004	
	Cla	ims, Numbers		
	1-1	5	received on 07.06.2004 with letter of 02.06.2004	
2.	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.			
	These elements were available or fumished to this Authority in the following language: , which is:			
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).	
		the language of pub	lication of the international application (under Rule 48.3(b)).	
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).	
3.	With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:			
		contained in the inte	rnational application in written form.	
	□.	\Box^- filed together with the international application in computer readable form.		
		furnished subsequently to this Authority in written form.		
		I furnished subsequently to this Authority in computer readable form.		
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.		
		The statement that t listing has been furn	he information recorded in computer readable form is identical to the written sequence ished.	
4.	The	amendments have r	esulted in the cancellation of:	
		the description,	pages:	
		the claims,	Nos.:	
		the drawings,	sheets:	
5.		This report has been been considered to	established as if (some of) the amendments had not been made, since they have go beyond the disclosure as filed (Rule 70.2(c)).	
		(Any replacement st report.)	neet containing such amendments must be referred to under item 1 and annexed to this	

6. Additional observations, if necessary:

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- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Novelty (N)

Yes: Claims

1-15

No: Claims

Inventive step (IS)

Yes: Claims

1-15

1-15

No: Claims

Industrial applicability (IA)

Yes: Claims

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No: Claims

2. Citations and explanations

see separate sheet

INTERNATIONAL PRELIMINARY

International application No. PCT/EP 03/06648

EXAMINATION REPORT - SEPARATE SHEET

Ad Section V:

The present application relates to methods of treating hair using a leave-on treatment composition containing i) citric acid, tartaric acid, their salts or mixtures thereof, and ii) a xanthine compound, wherein the ratio of i) to ii) is from 1:0.01 to 0.01:1. Preferred ii) are caffeine, dyphylline, theophylline, cafaminol, aminophylline or theobromine.

The use of the above compositions for styling hair is claimed, as is the use of i) an αhydroxy acid, its salts or mixtures thereof, and ii) a xanthine, substituted xanthine or mixtures thereof for lengthening hair, decreasing the volume of hair or increasing the high humidity style retention of hair.

The following documents may be referred to in the present procedure:

D1: EP-A-0 325 969 D2: EP-A-0 728 472 D3: FR-A-2 751 541 D4: US H1480 H

D5: WO 96 10387 A

The amendments to the claims and description are considered allowable according to Art.34(2)(b) PCT in that they do not extend the scope of the application beyond that of the disclosure as originally filed.

Compositions containing a xanthine and an acid are known eg. from D1 which concerns the use of xanthine with salicylic acid for the treatment of alopecia.

D3 describes after-shampoo compositions for the treatment of hair to prevent/cure alopecia, which contain caffeine, with citric acid as a pH adjuster (see example 4). The level of citric acid is not given.

The prior art does not describe the present compositions for use in the styling or lengthening of hair, decreasing volume of hair or increasing the high humidity style retention of hair.

The methods and uses presently claimed are therefore novel and inventive with regard to the prior art (Art.33(2) and 33(3) PCT.